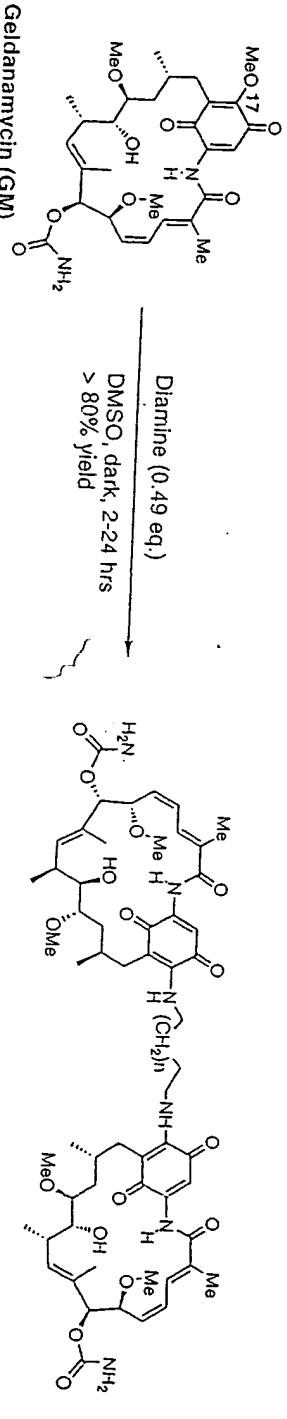
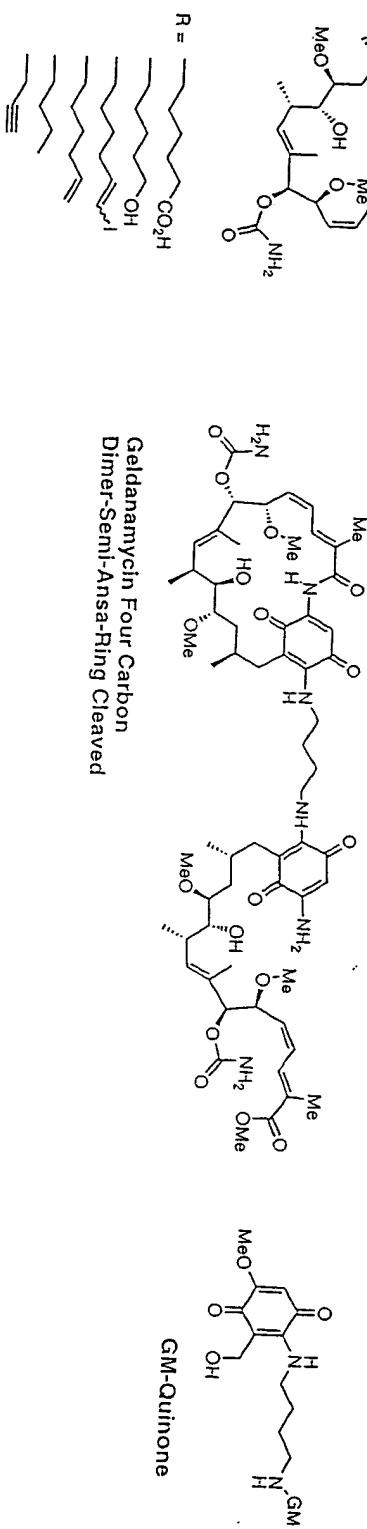
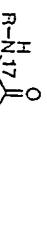


FIG. 1

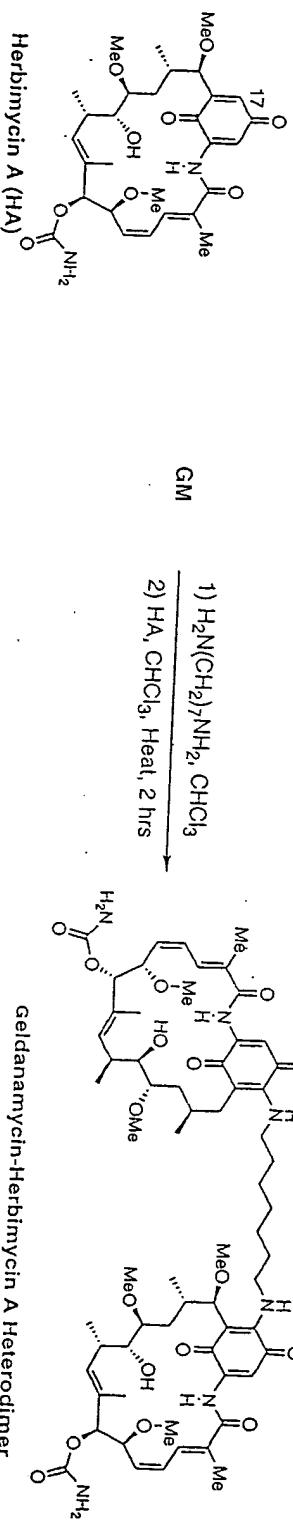


Geldanamycin (GM)

R-NH₂ (Excess)
CHCl₃, dark



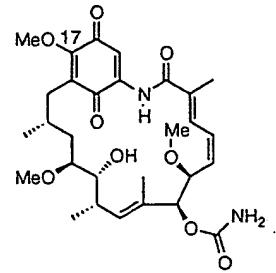
Geldanamycin Four Carbon
Dimer-Semi-Ansa-Ring Cleaved



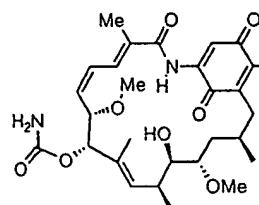
Geldanamycin-Herbimycin A Heterodimer

1) $\text{H}_2\text{N}(\text{CH}_2)_7\text{NH}_2$, CHCl₃
2) HA, CHCl₃, Heat, 2 hrs

1) $\text{H}_2\text{N}(\text{CH}_2)_7\text{NH}_2$, CHCl₃
2) HA, CHCl₃, Heat, 2 hrs



Geldanamycin (GM,O)



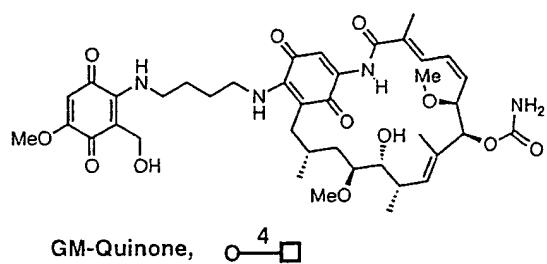
GM dimers (GMD, O—O)

$n = 4$: GMD-4C, O⁴—O

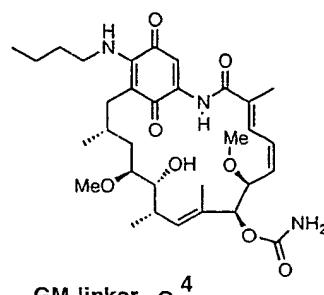
$n = 7$: GMD-7C, O⁷—O

$n = 9$: GMD-9C, O⁹—O

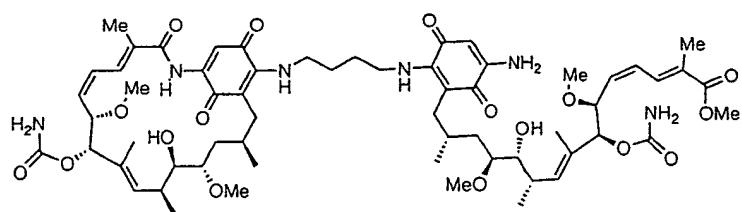
$n = 12$: GMD-12C, O¹²—O



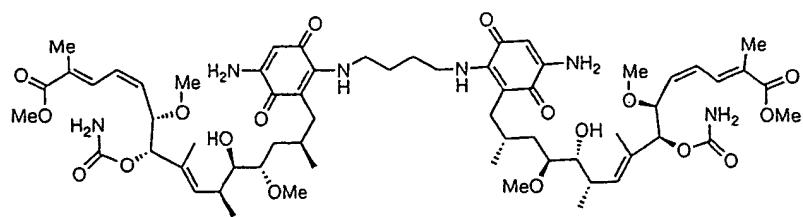
GM-Quinone, O⁴



GM-linker, O⁴



GMD-a, O⁴



GMD-aa, O⁴

Fig. 2